

Fig. 1

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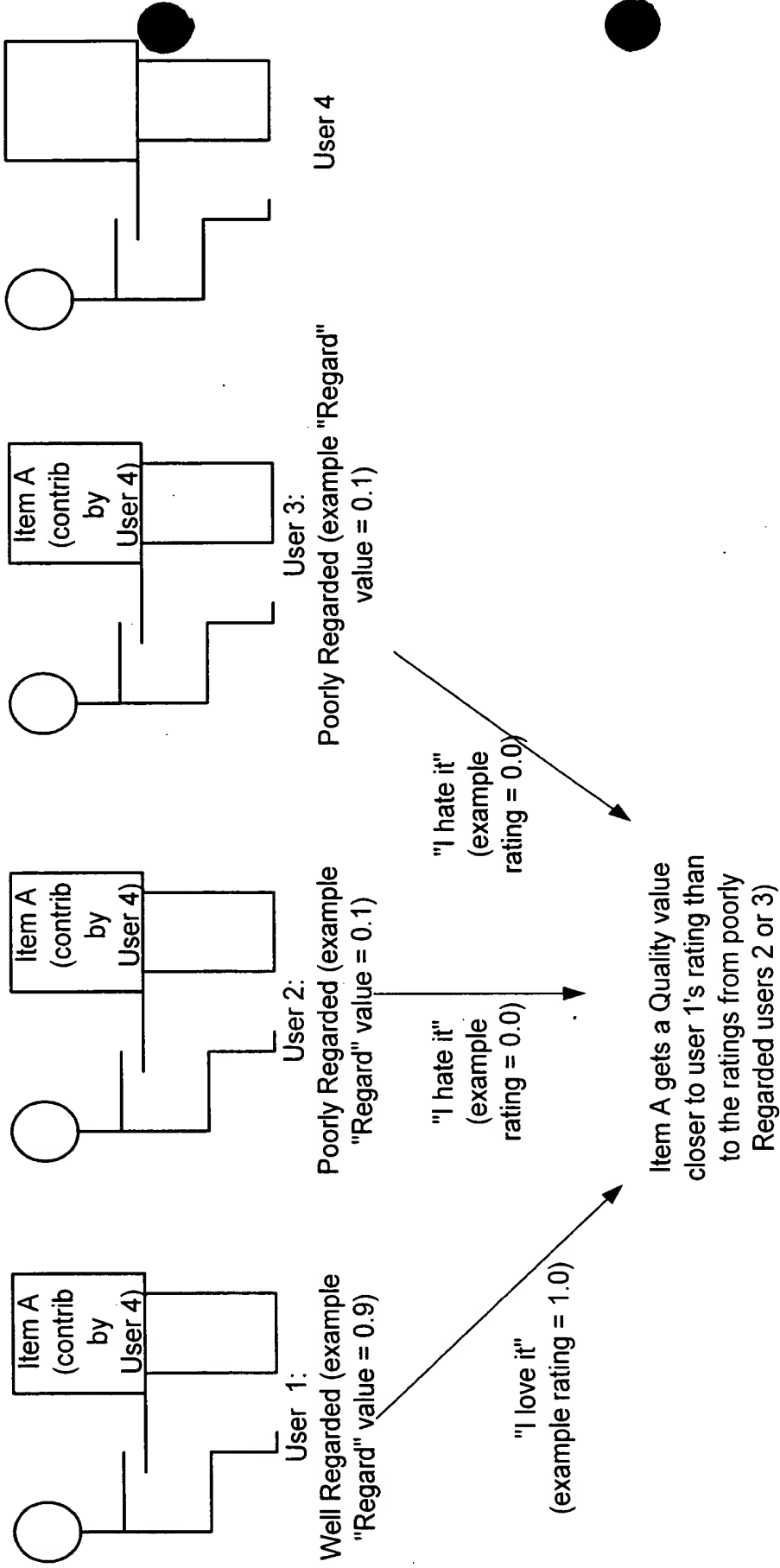
Clearance Items

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Navigation & Rating
Alternate Embodiments
"Single Click Rating"
"Rate while you Navigate"
"Single keystroke/click Rate/Navigate"

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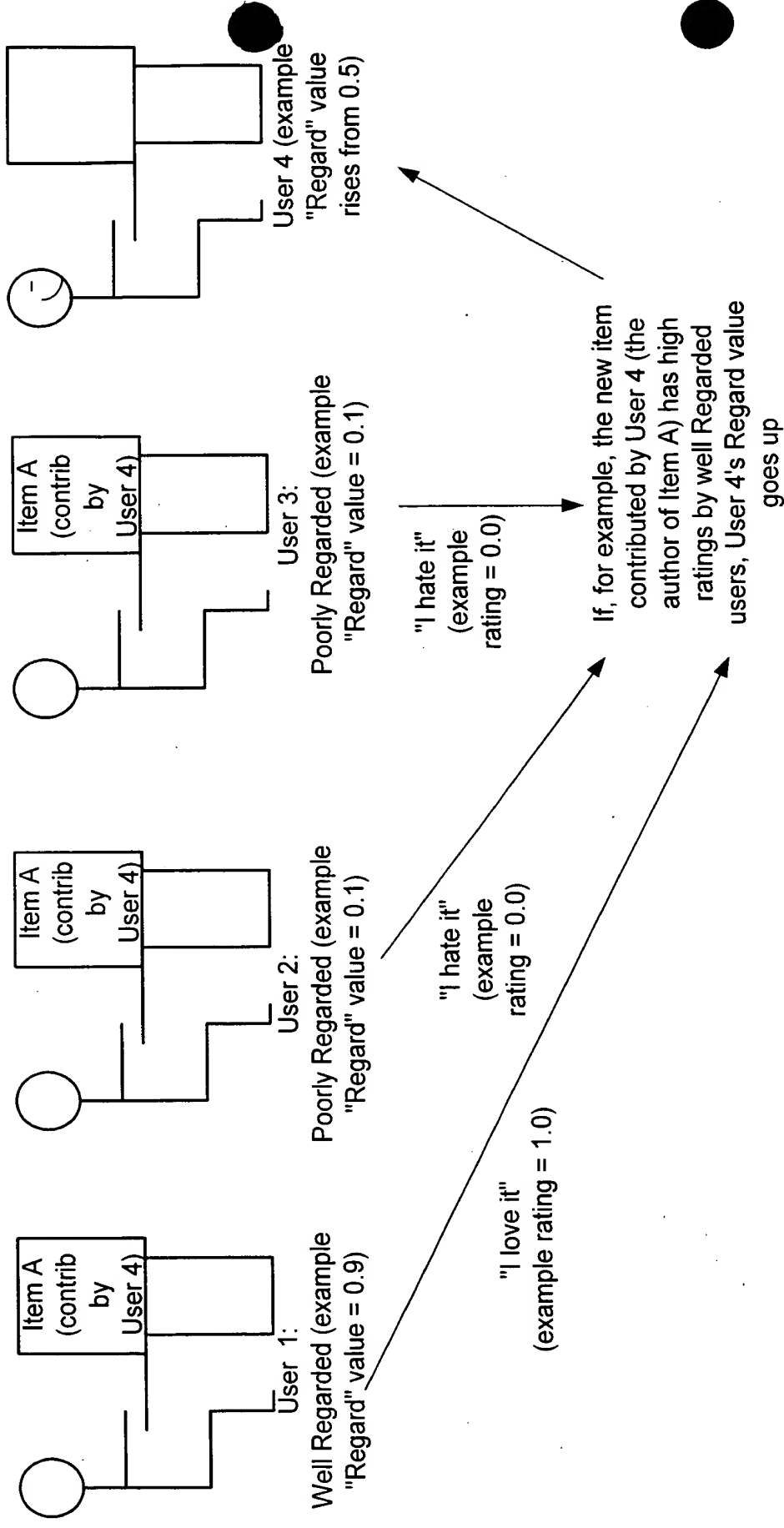
Note: These are the only users



The ratings contributed by all users are not equally valued

Fig. 3

Note: These are the only users



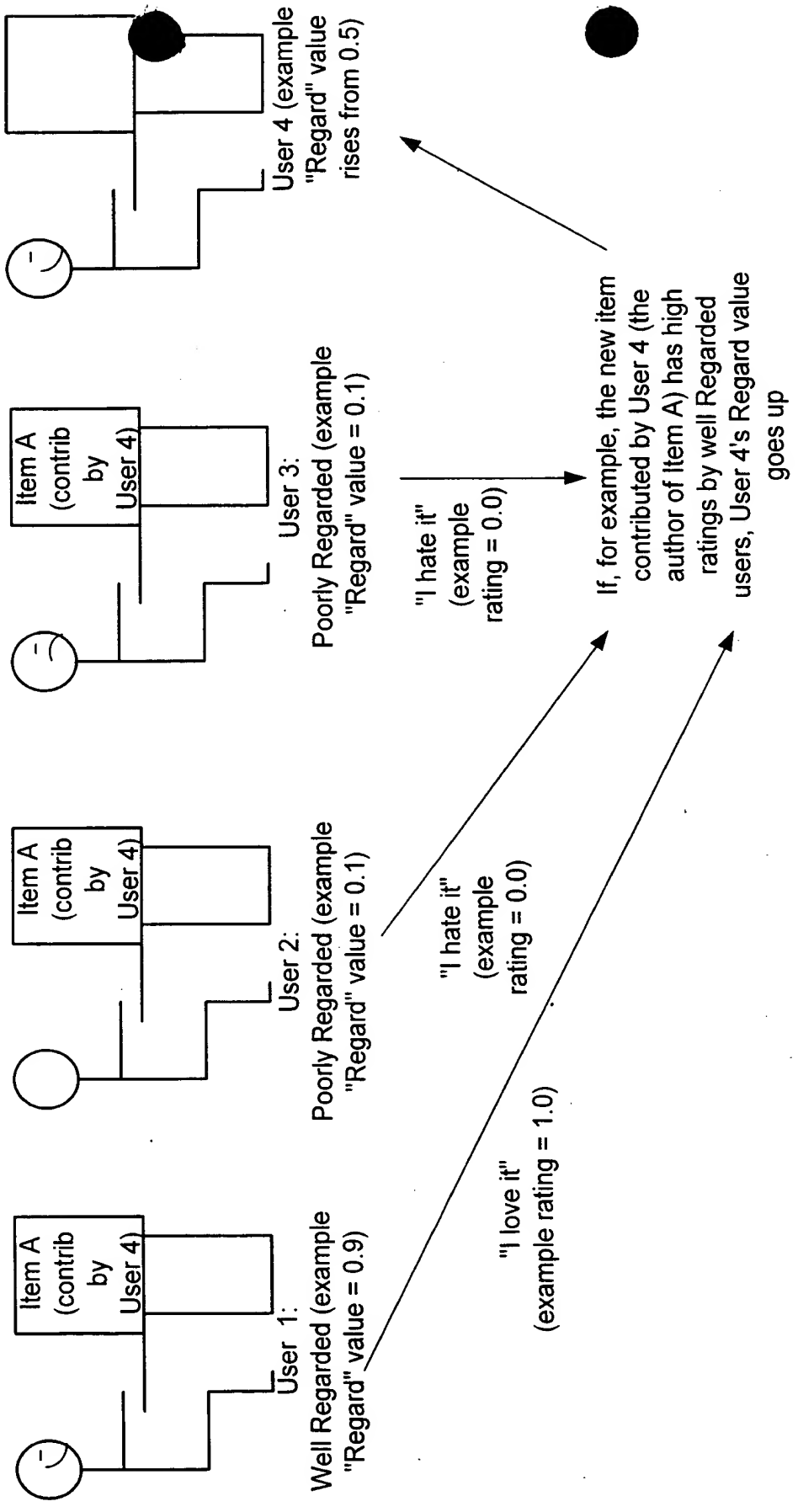
A user's Regard value is affected by how other users rate the items the user contributes and by the Regard values of the users assigning the ratings

Fig. 4(a)

Note: These are the only users

Historical "high" rating of User 1's items from User 4 has more effect; User 1's Regard rises

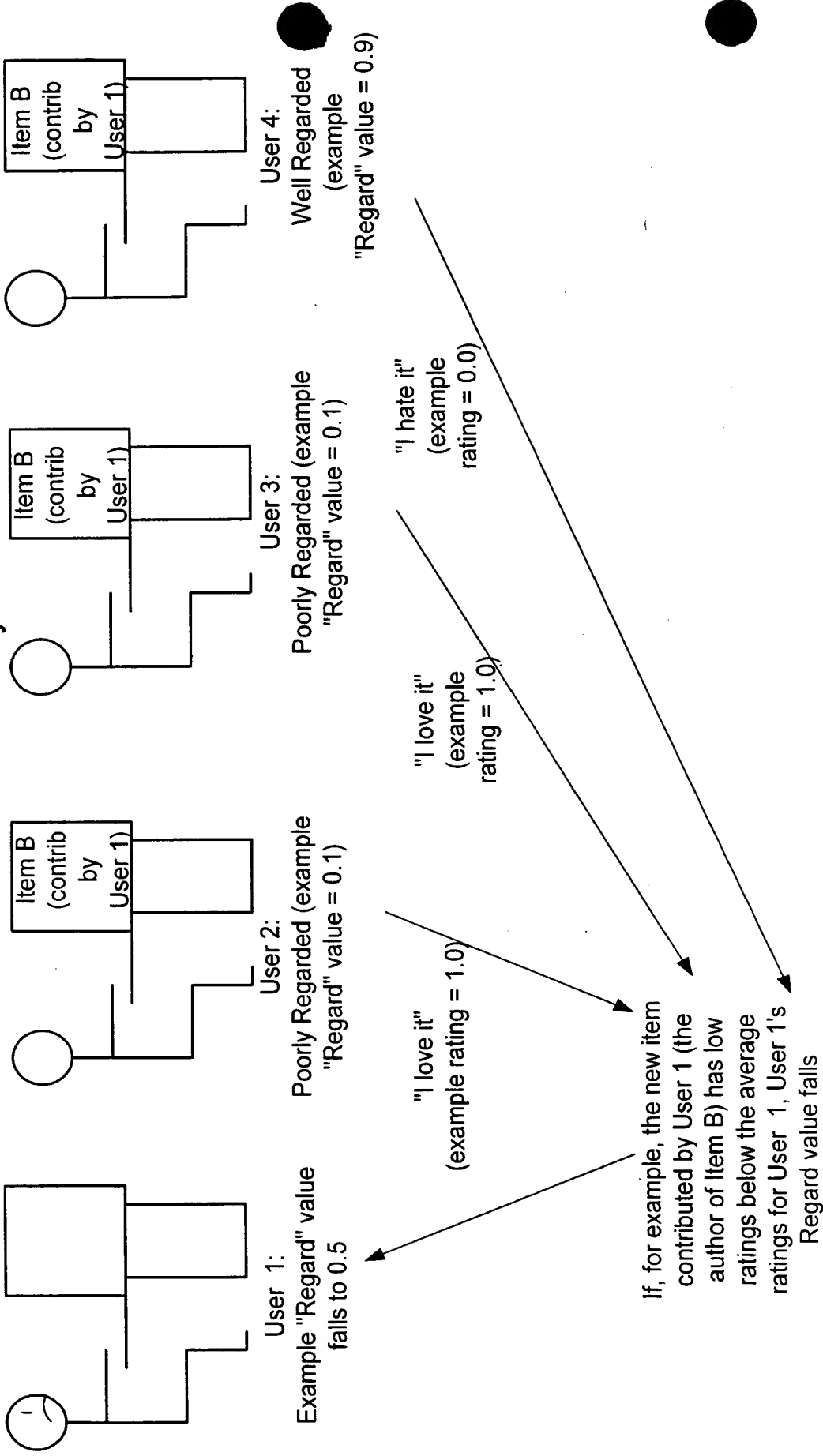
Historical "low" rating of User 3's items from User 4 has more effect; User 3's Regard falls



A user's Regard value affects the Regard of others whose items he has rated and affects the Quality of their items

Fig. 4(b)

Note: These are the only users



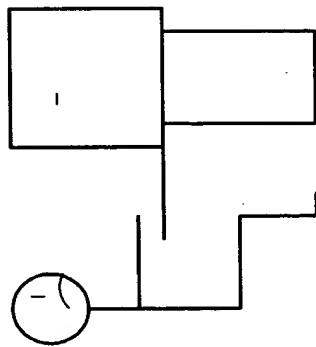
A user's Regard value is affected by how other users rate the items he contributes and by the Regard values of those users

Fig. 5(a)

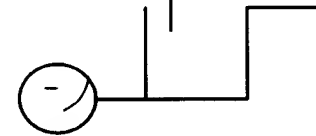
Note: These are the only users

Historical "high" rating of User 4's items
from User 1 has less effect;
User 4's Regard falls

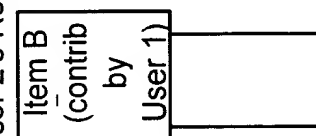
Historical "low" rating of User 2's
items from User 1 has less effect;
User 2's Regard rises



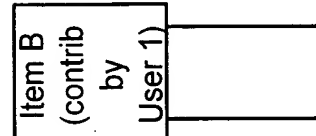
User 1:
Example "Regard" value
falls to 0.5



User 2:
Poorly Regarded (example
"Regard" value = 0.1)



User 3:
Poorly Regarded (example
"Regard" value = 0.1)



User 4:
Well Regarded
(example
"Regard" value = 0.9)

"I love it"
(example rating = 1.0)

"I love it"
(example
rating = 1.0)

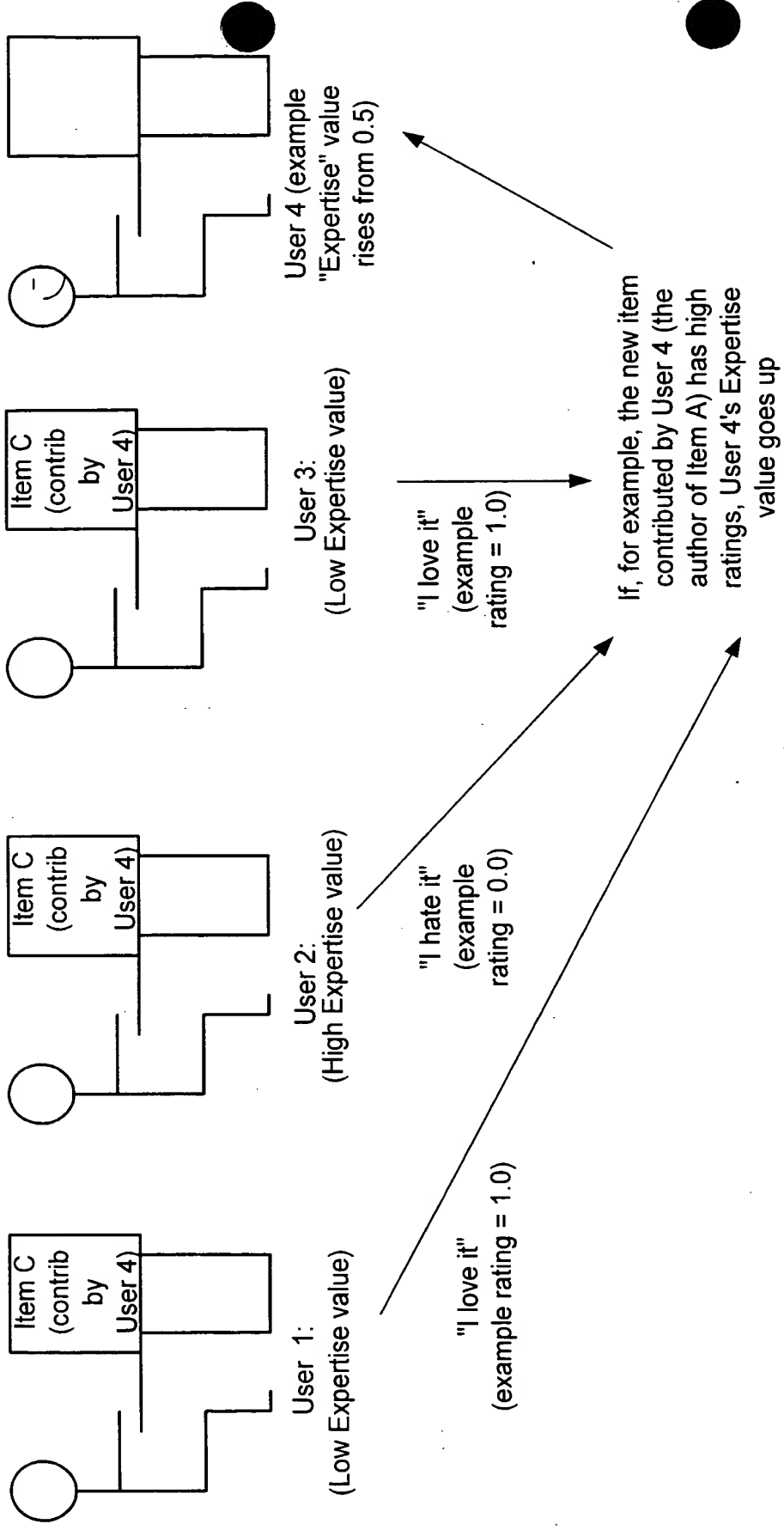
"I hate it"
(example
rating = 0.0)

If, for example, the new item
contributed by User 1 (the
author of Item B) has low
ratings below the average
ratings for User 1, User 1's
Regard value falls

A user's Regard value is affected by how
other users rate the items he contributes and
by the Regard values of those users

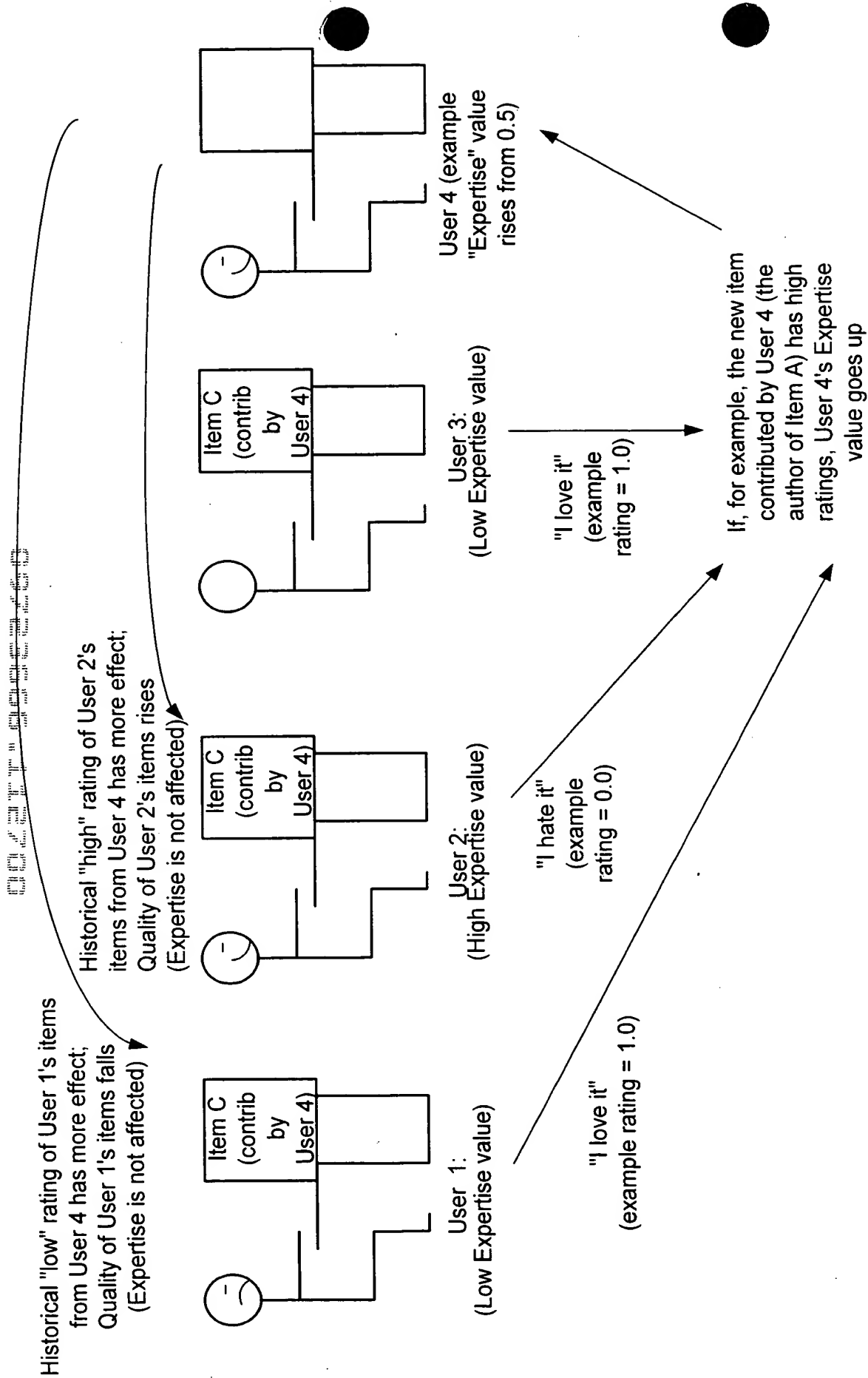
Fig. 5(b)

Note: These are the only users



A user's Expertise value is affected by how other users rate the items he contributes (but not by the Expertise value of those users)

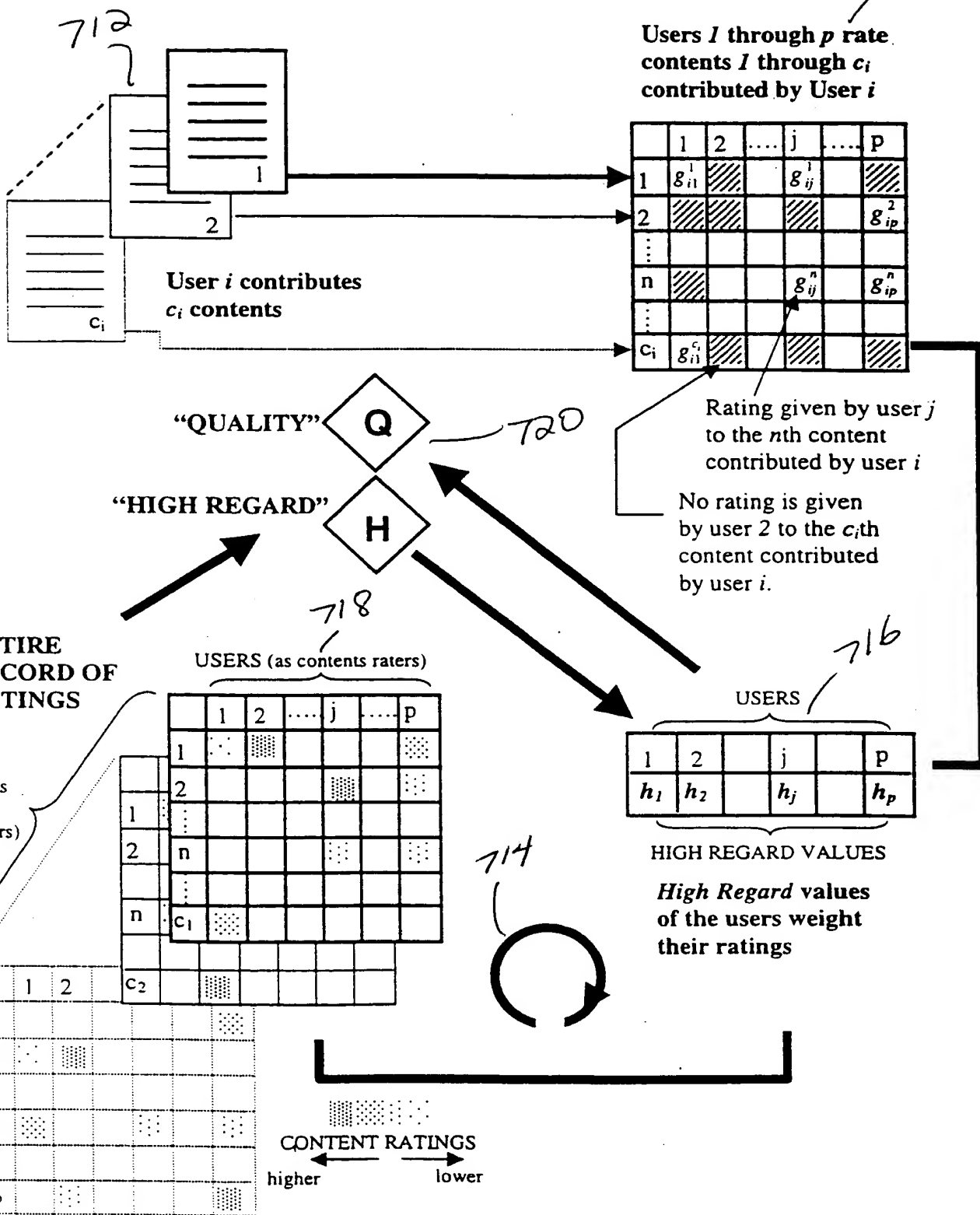
Fig. 6(a)



A user's Expertise value is affected by how other users rate the items he contributes (but not by the Expertise value of those users)

Fig. 6(b)

Fig. 7(b)



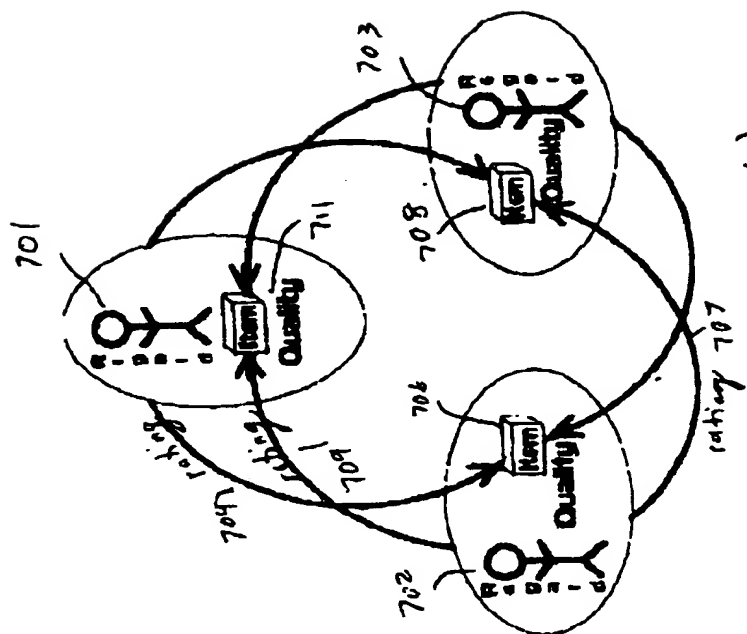


Fig 7(a)

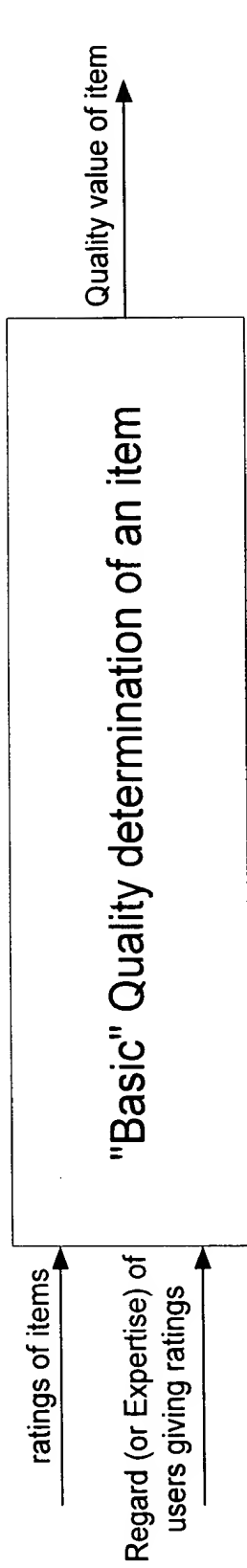


Fig. 7(c)

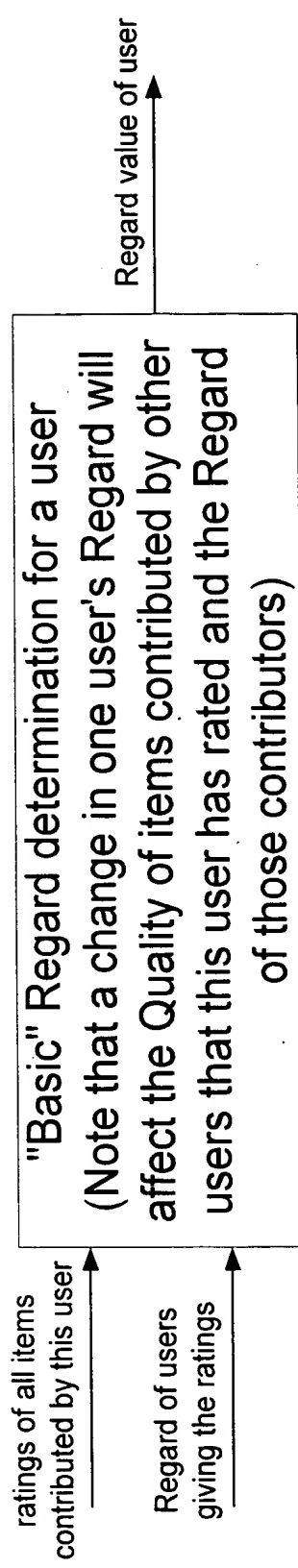


Fig. 7(d)

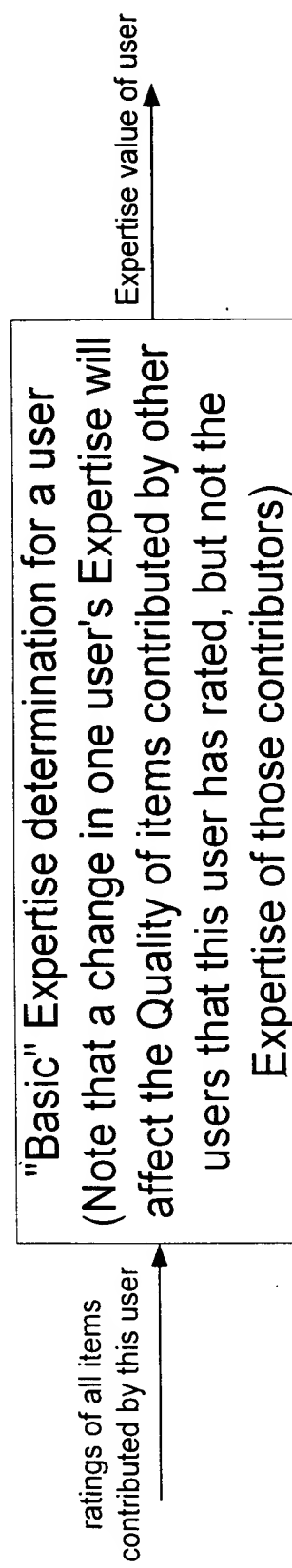


Fig. 7(e)

High Regard Inertia Model

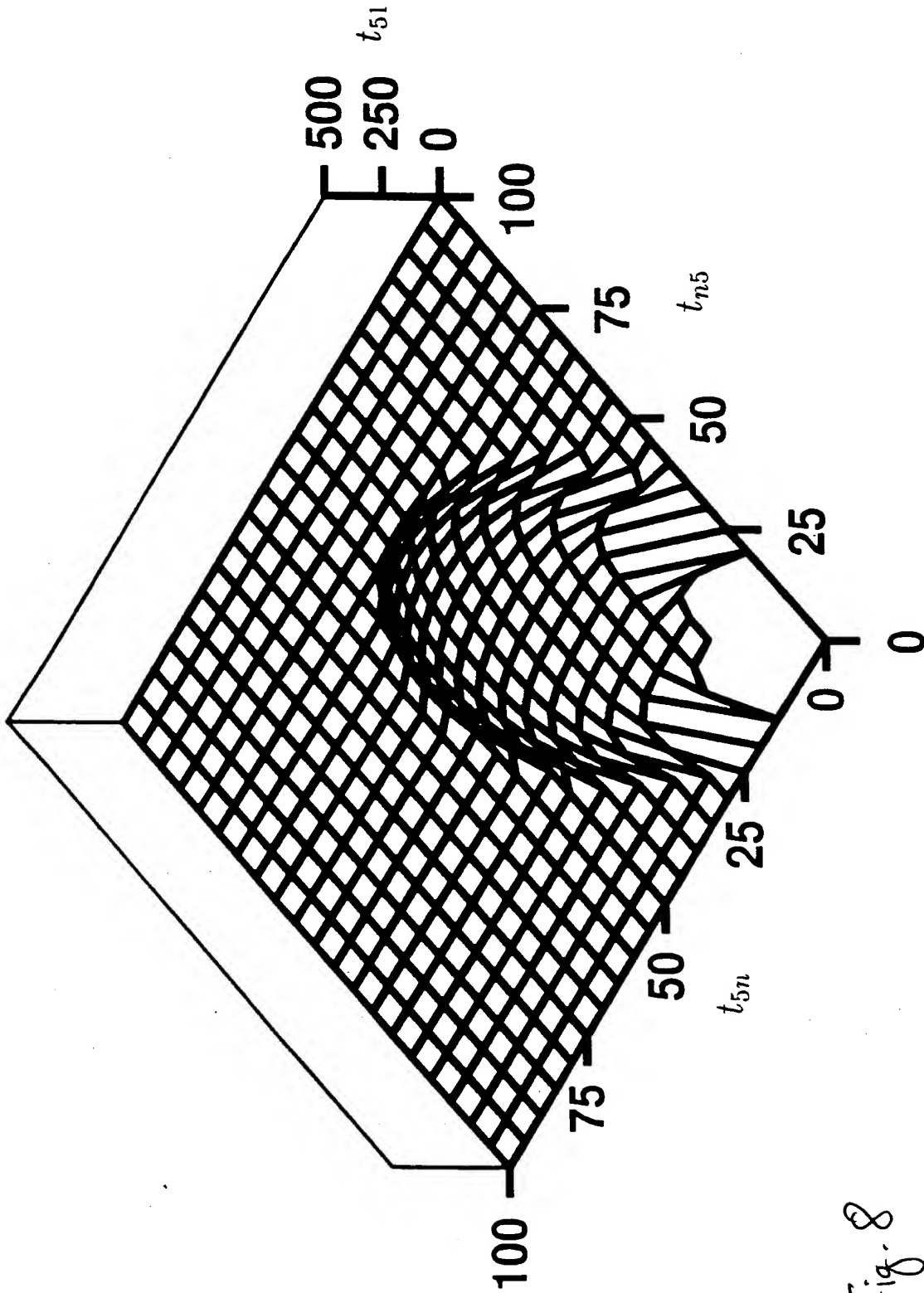


Fig. 8

$$t_{51} = \max \left\{ 0, 500 - \left(\frac{1}{4} \sum_{n=2}^p t_{5n} + \frac{1}{3} \sum_{n=2}^p t_{n5} - \sqrt{\frac{1}{2} \sum_{n=2}^p t_{5n} \times \sum_{n=2}^p t_{n5}} \right)^4 \right\}$$

Quality Inertia Model

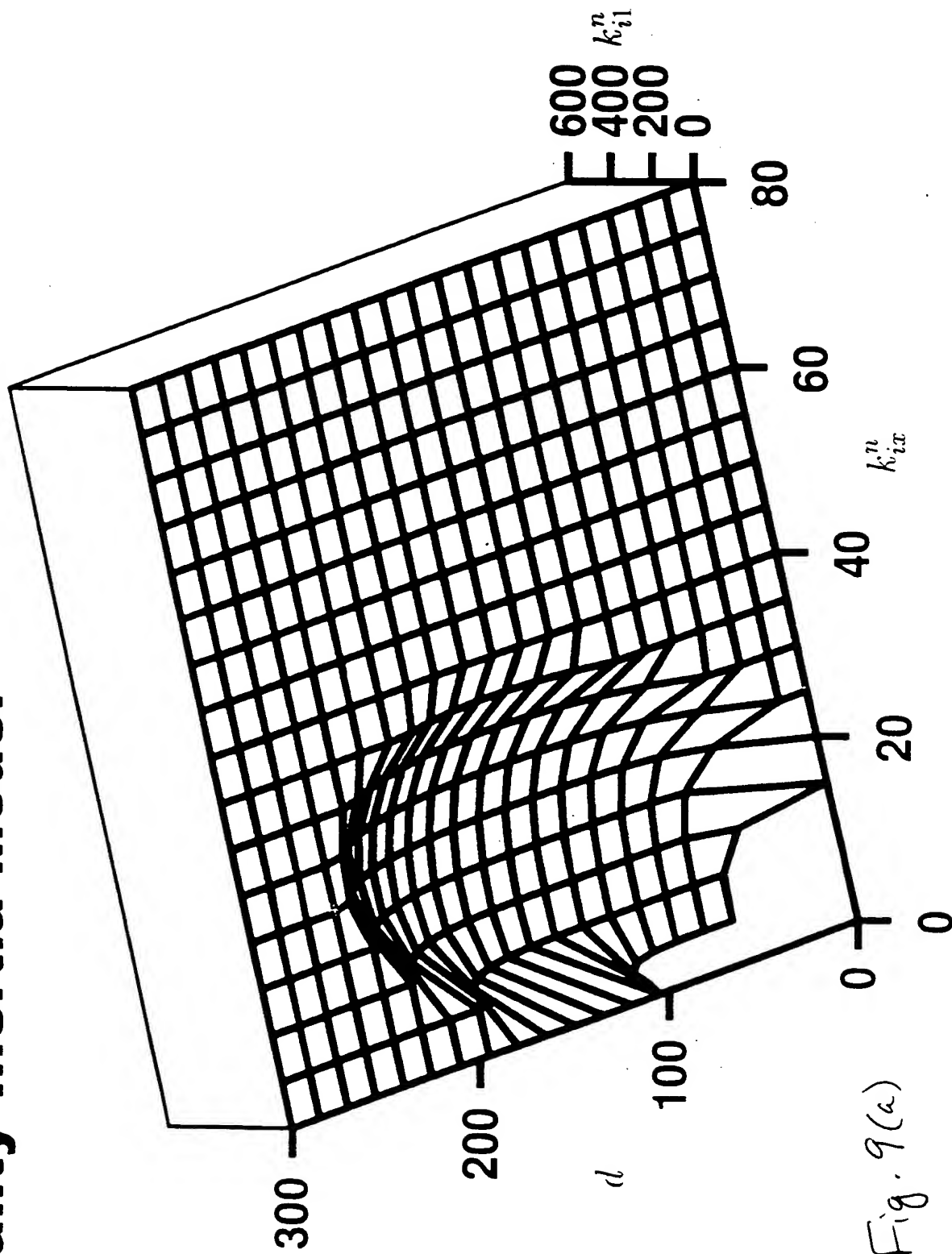


Fig. 9(a)

$$k_{i1}^n = \max \left\{ 1, 600 - \left(\frac{1}{3} \sum_{x=2}^p k_{ix}^n + \frac{d}{20} - \sqrt[4]{\frac{d}{25} \sum_{x=2}^p k_{ix}^n} \right) \right\}$$

Segmented Decay Model

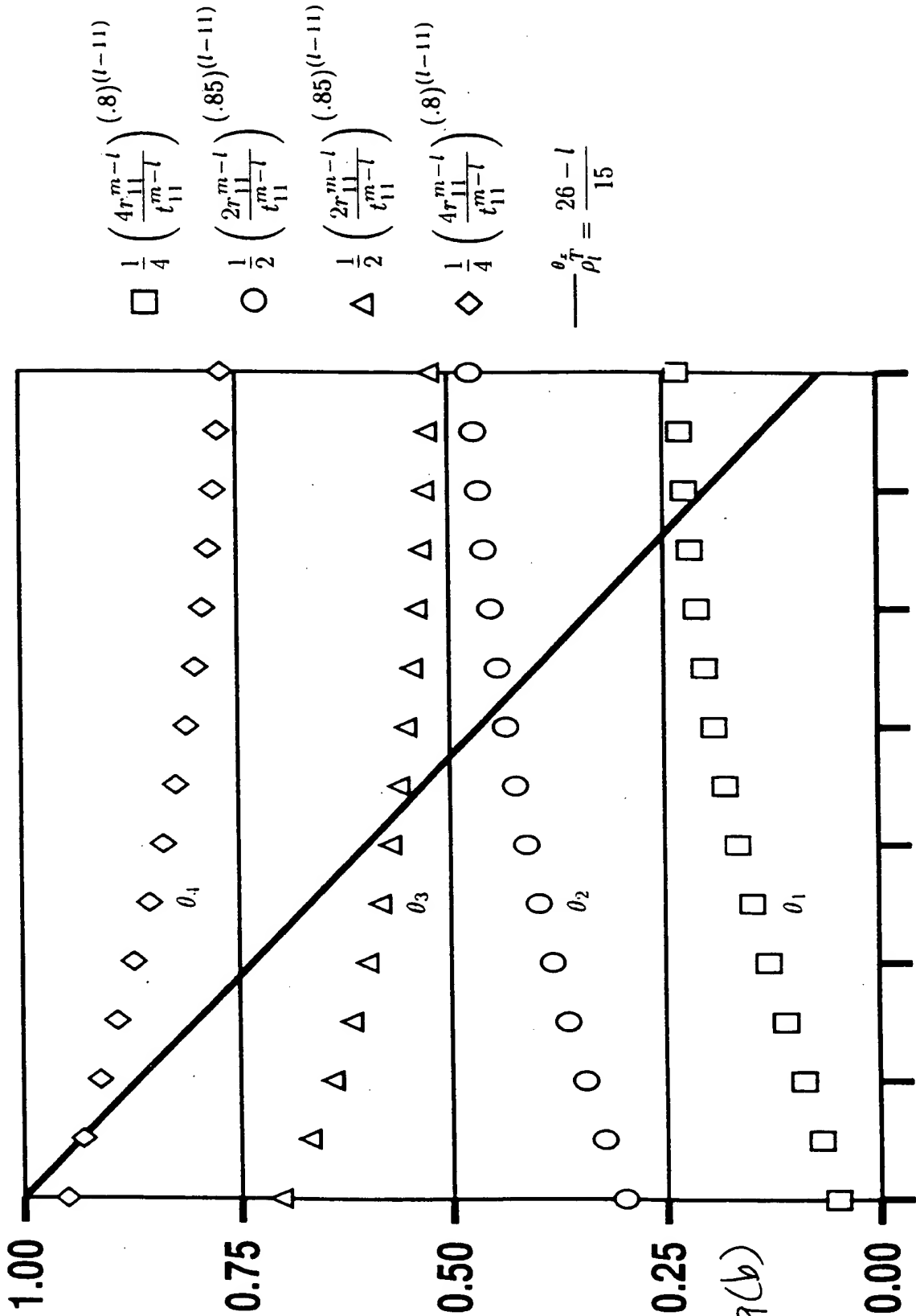


Fig. 9(b)

Sample High Regard Data Set

1002

Sample User Data	
uid	User
1	gordon@cole.com
2	larry@marso.com
3	dale@cooper.com
4	laura@palmer.com
5	brian@litzinger.com

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Sample Rating Log			
uid	aid	iid	rating
1	2	1	0.74
1	3	2	0.95
1	3	3	0.95
1	4	4	0.71
1	4	5	0.71
1	4	6	0.71
1	5	7	0.03
2	1	8	0.13
2	1	9	0.13
2	5	7	0.39
3	1	8	0.27
3	1	9	0.27
3	4	4	0.065
3	4	5	0.065
3	5	7	0.795
3	5	10	0.795
4	2	1	0.92
4	5	7	0.65
4	5	11	0.65
5	1	8	0.59
5	2	1	0.44666667
5	2	12	0.44666667
5	2	13	0.44666667
5	3	2	0.91
5	4	4	0.03

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Sample Output of High Regard		
uid	User	HR
1	gordon@cole.com	0.285943744159
2	larry@marso.com	0.525147620373
3	dale@cooper.com	0.928946150922
4	laura@palmer.com	0.223508895679
5	brian@litzinger.com	0.635736019429

uid = identifier of person doing the rating
aid = identifier of author of item being rated
iid = identifier of item being rated
rating = rating assigned to item iid by user uid
HR = High Regard

Fig. 10

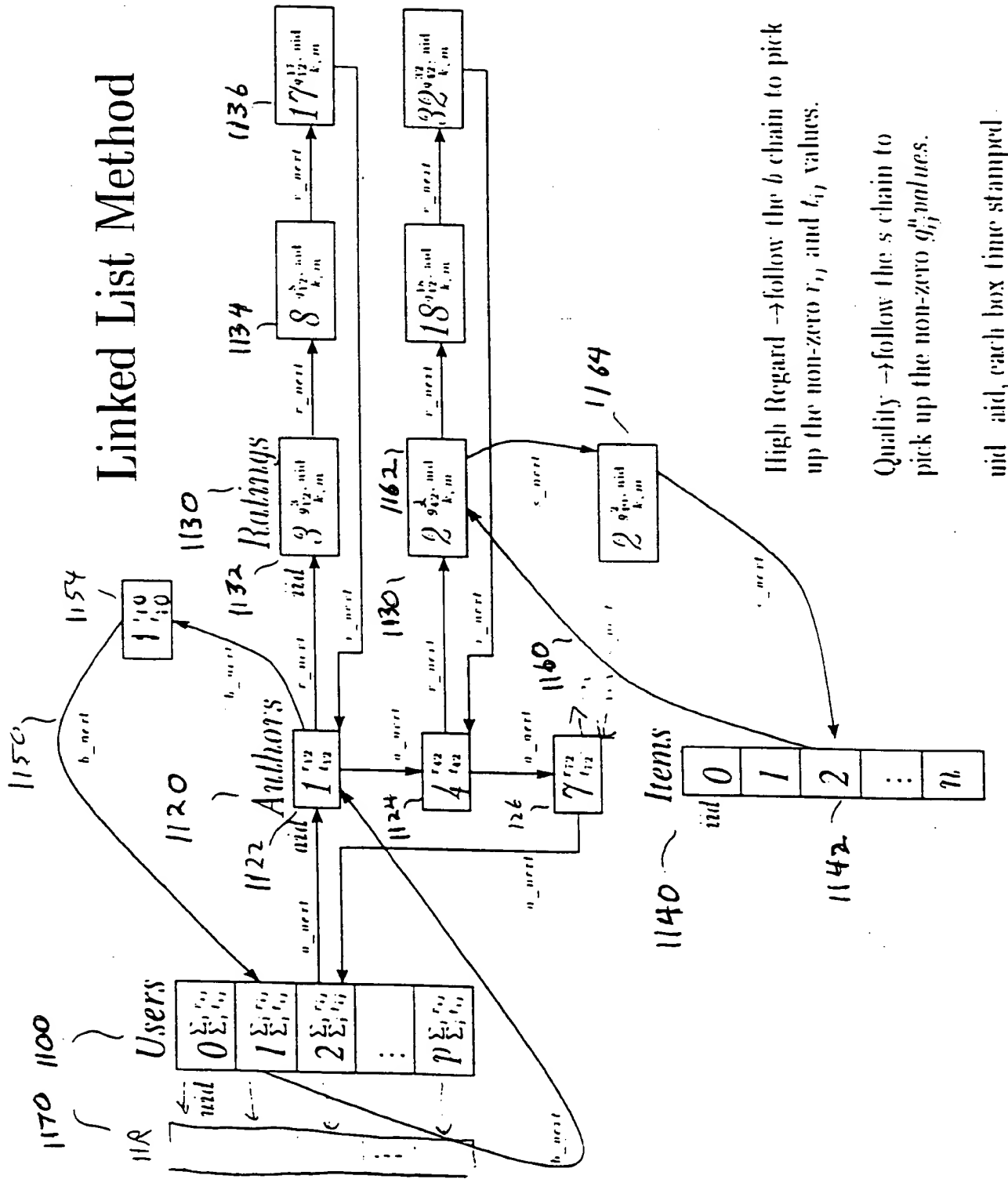


Fig. 11

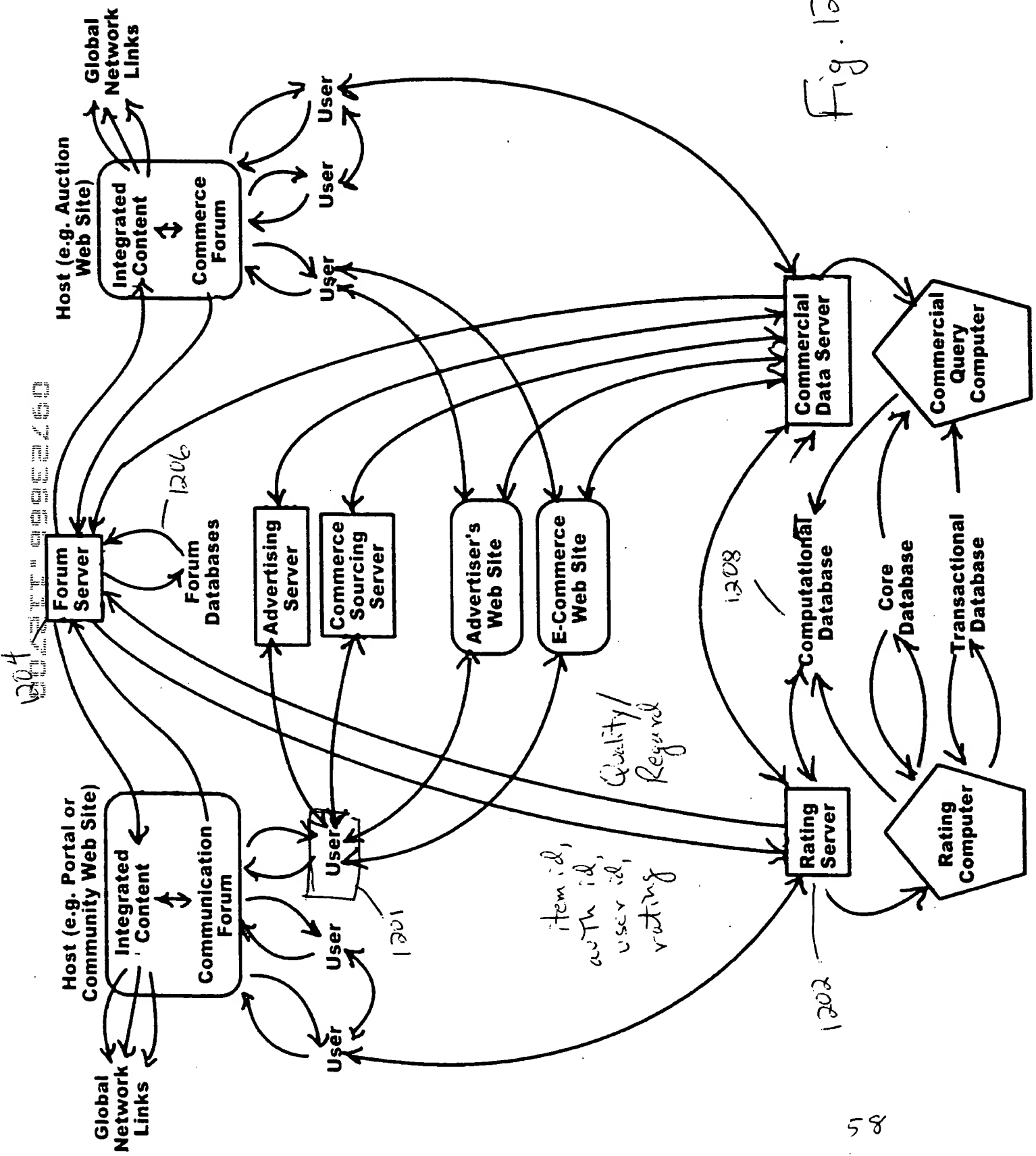


Fig. 12(a)

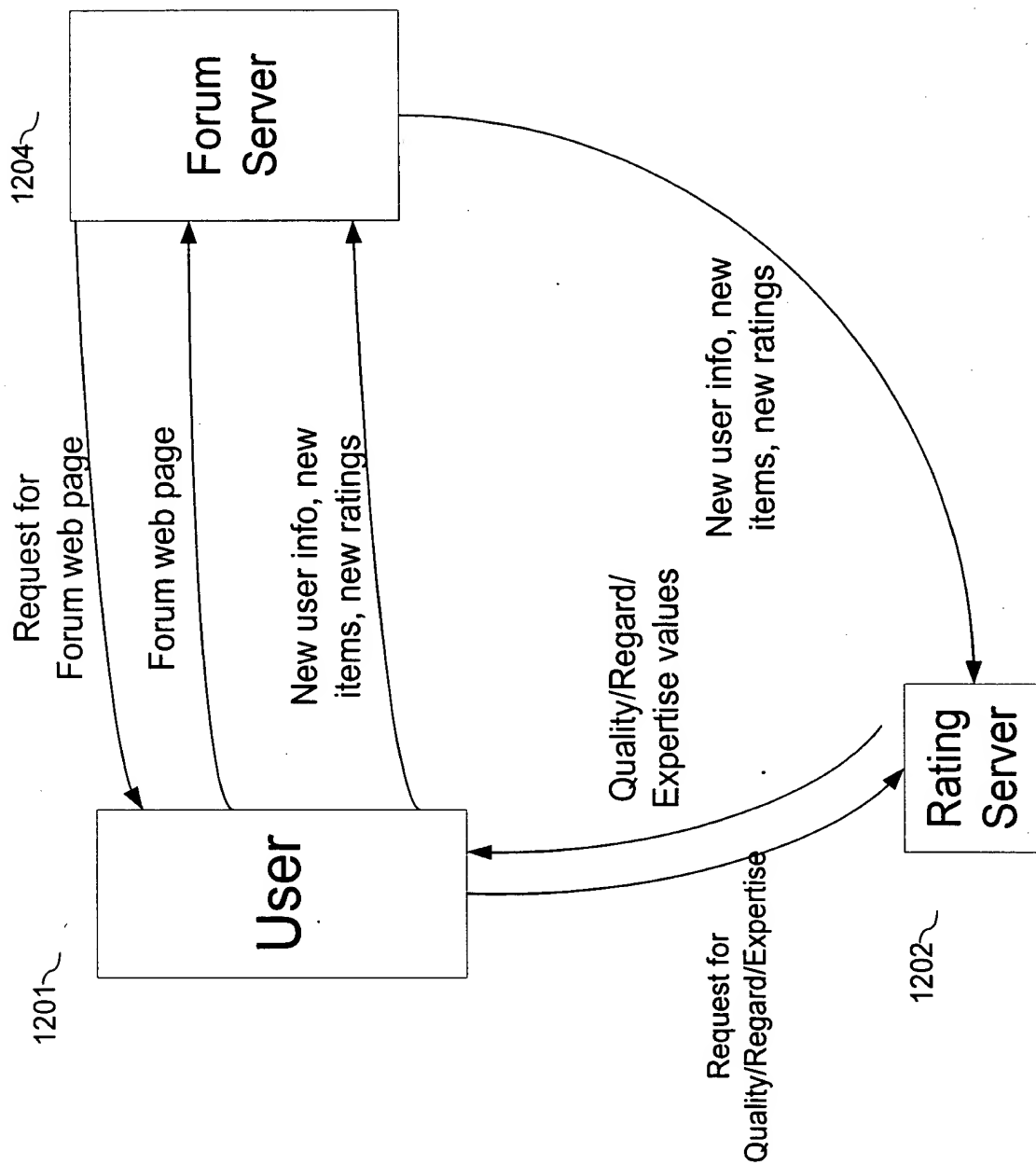


Fig. 12(b)

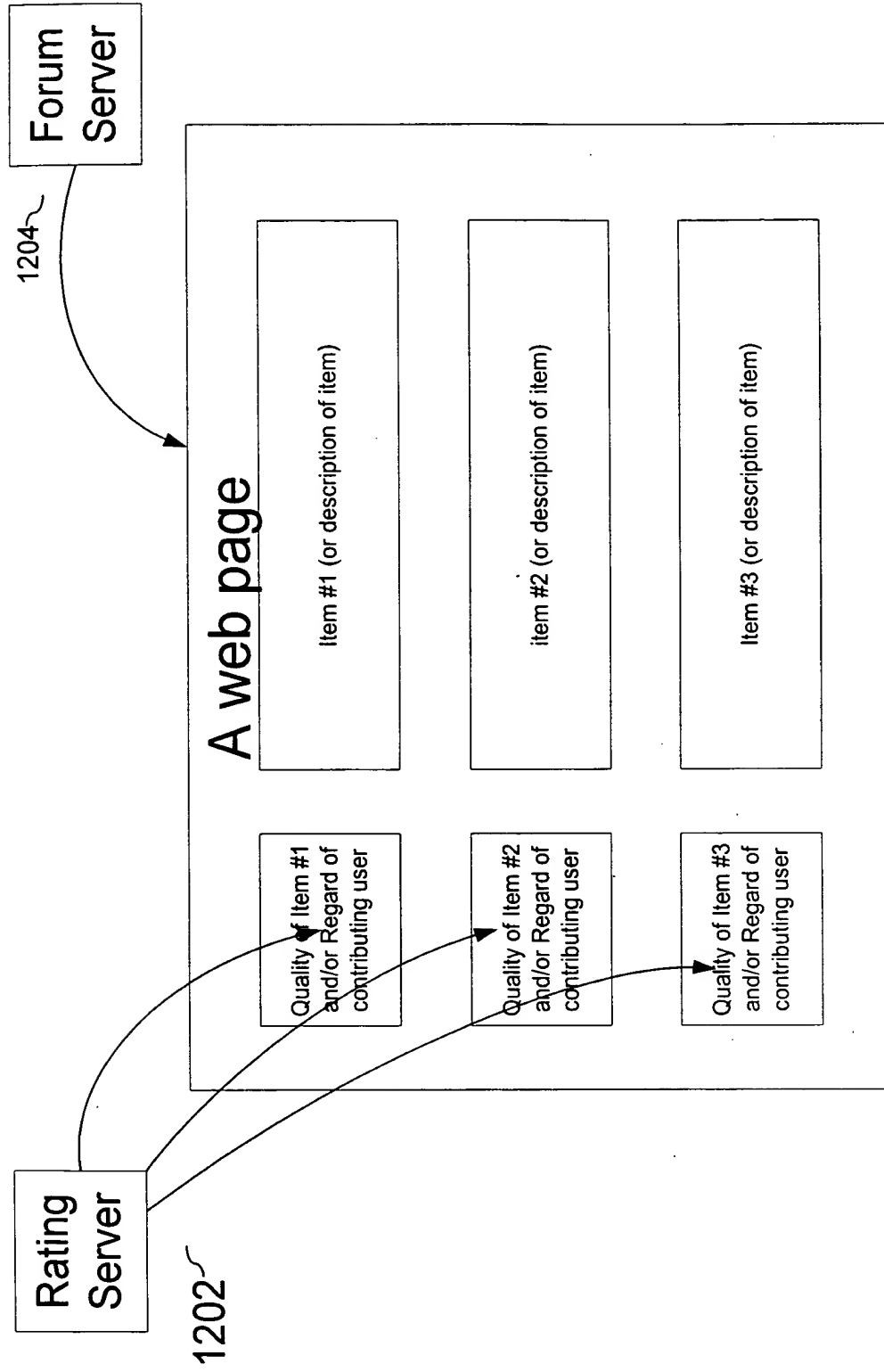


Fig. 12(c)

FIG. 13

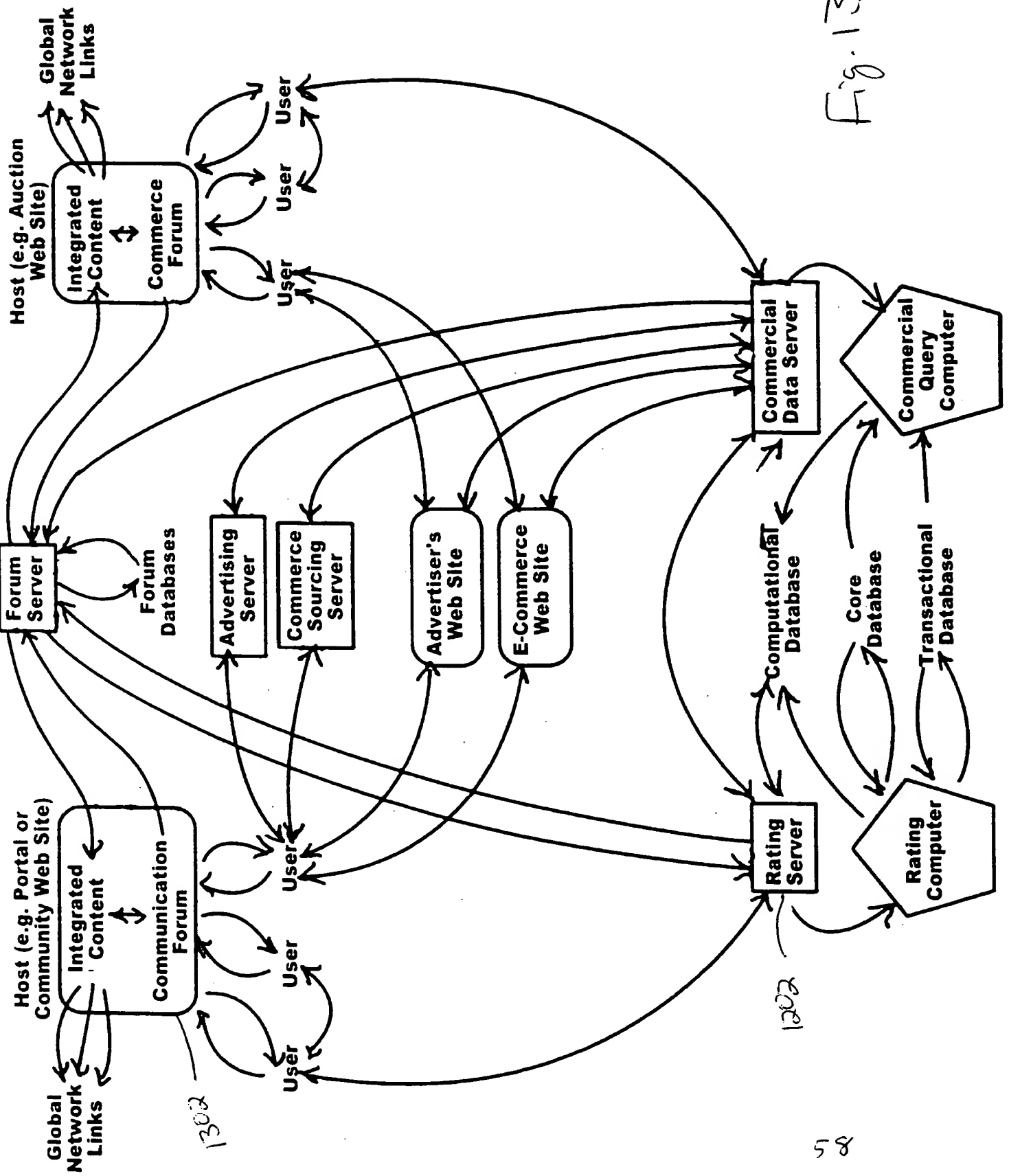


Fig. 13

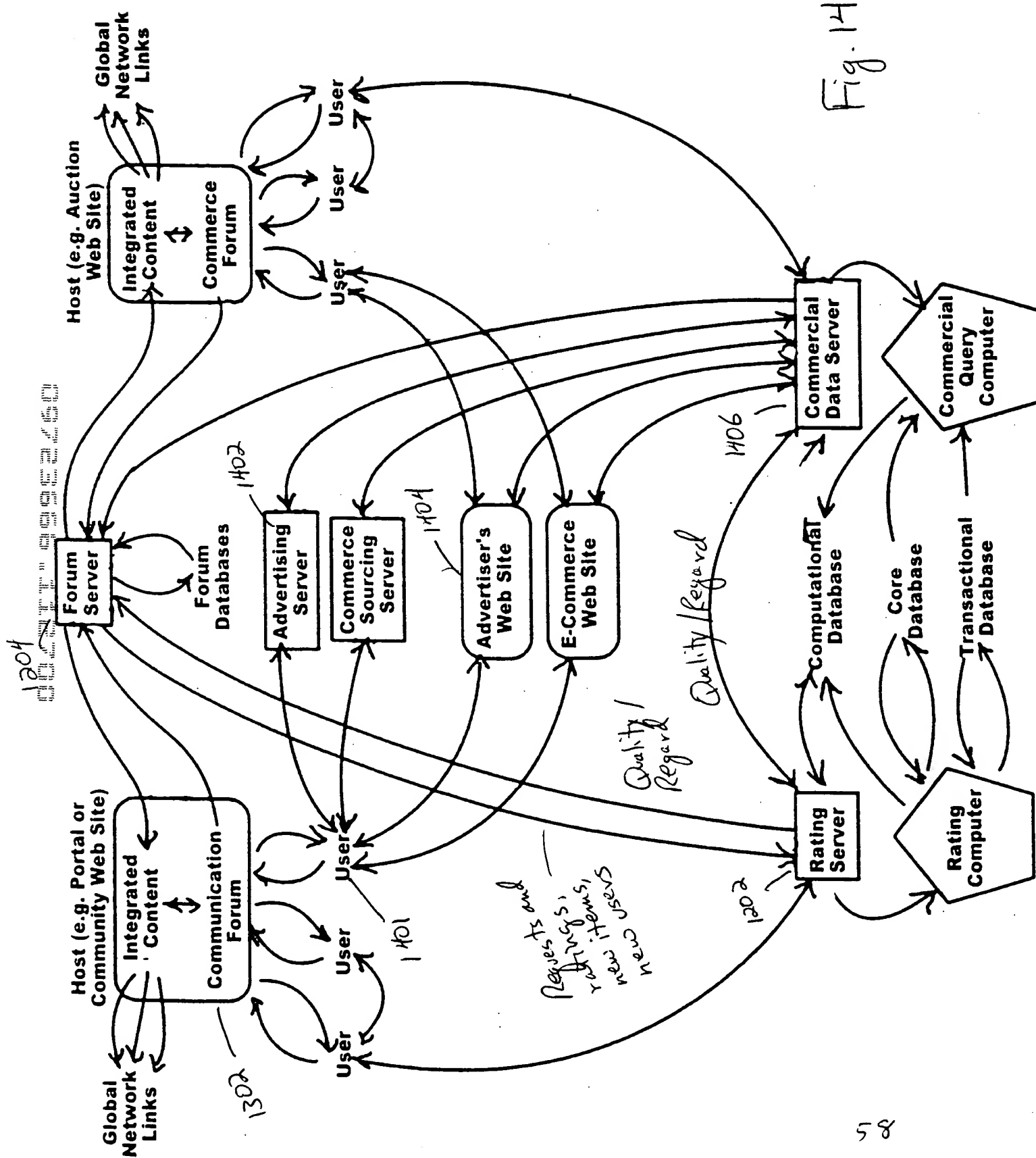
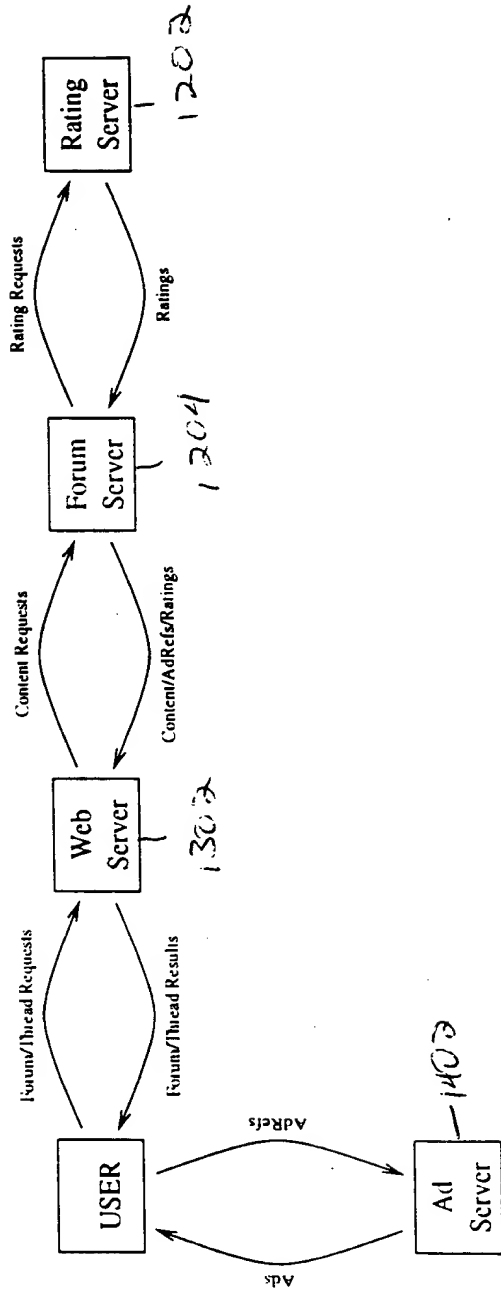
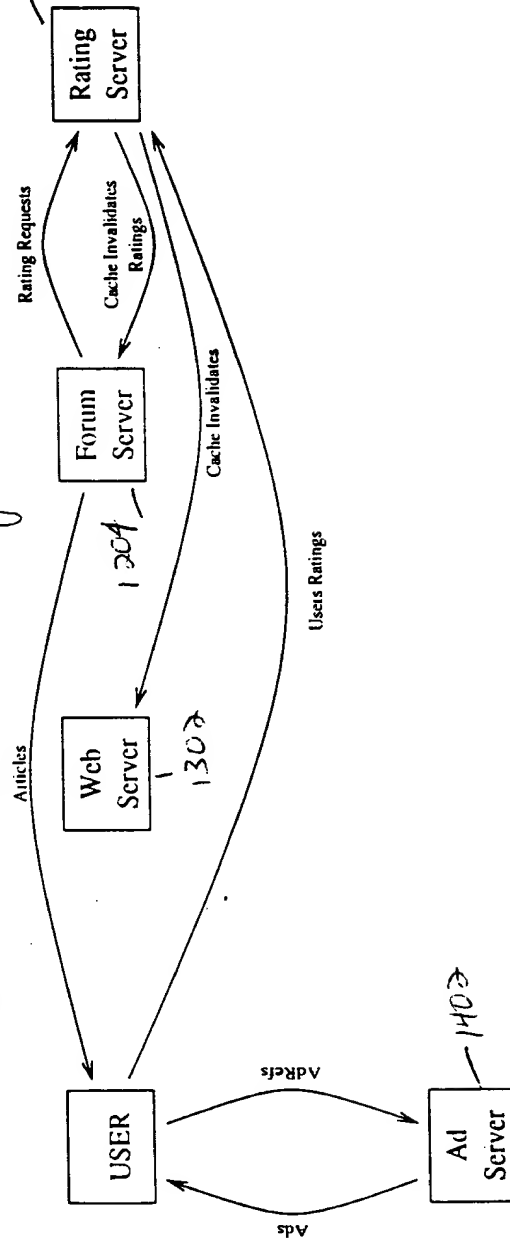


Fig. 12

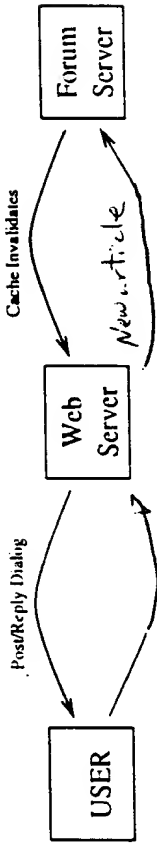
Cache Intercommunication - Fig. 15(a)



Article View Intercommunication - Fig. 15(b)



Post/Reply Intercommunication - Fig. 15(c)



User Login

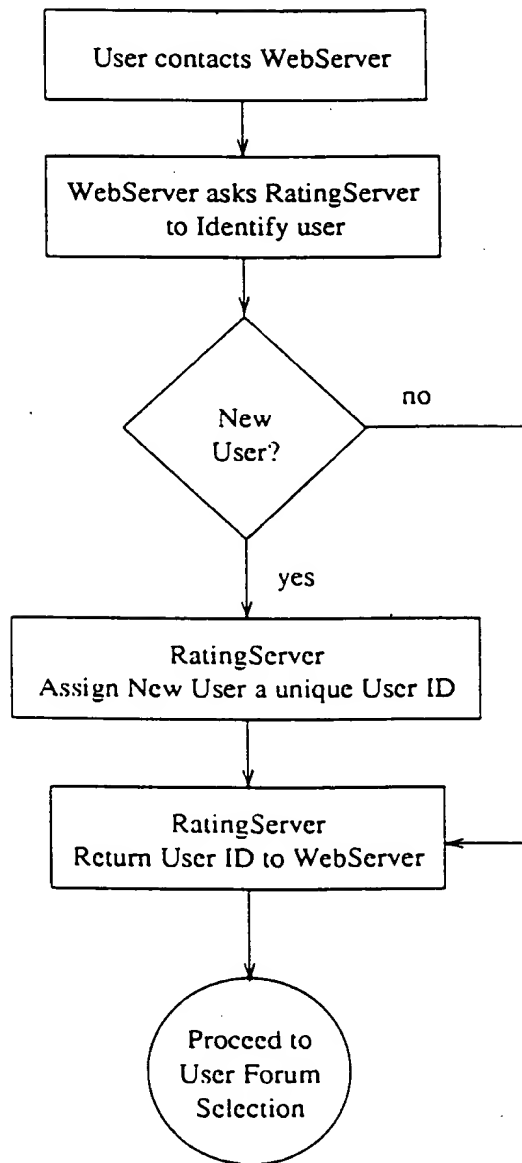


Fig. 16(a)

User Forum Selection

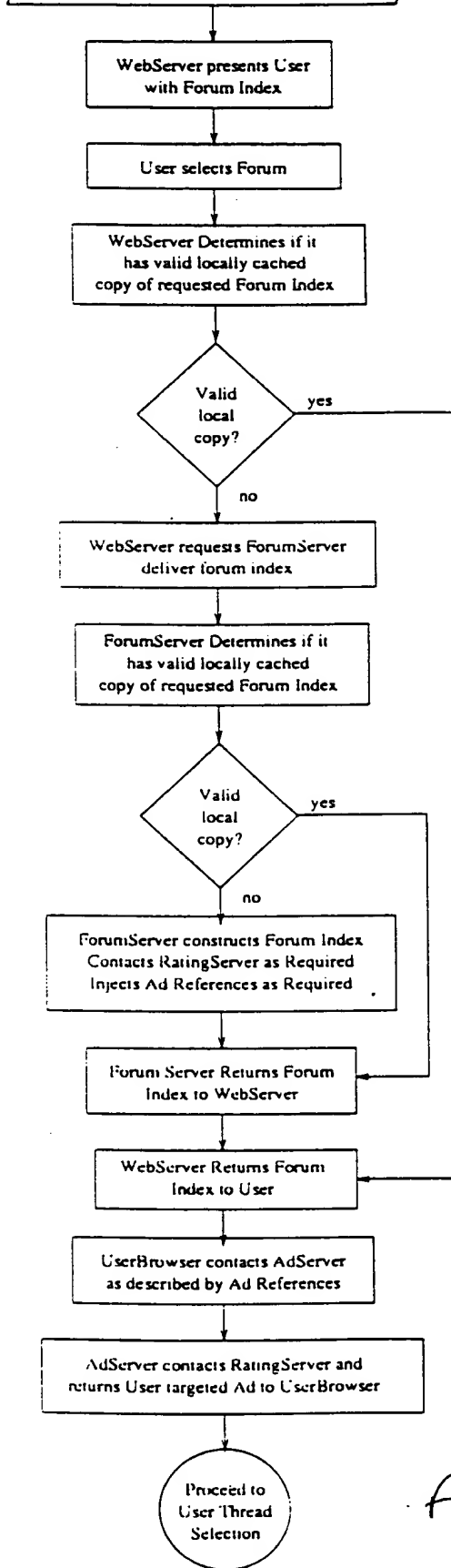


Fig. 16(b)

User Thread Selection

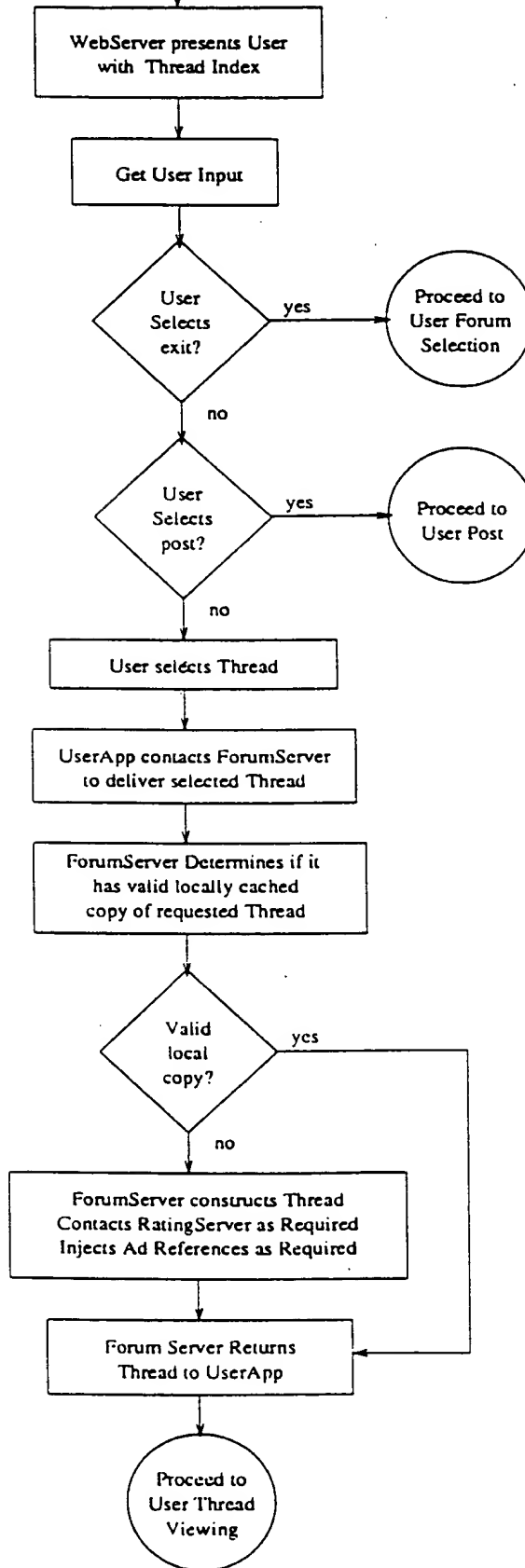


Fig. 16(c)

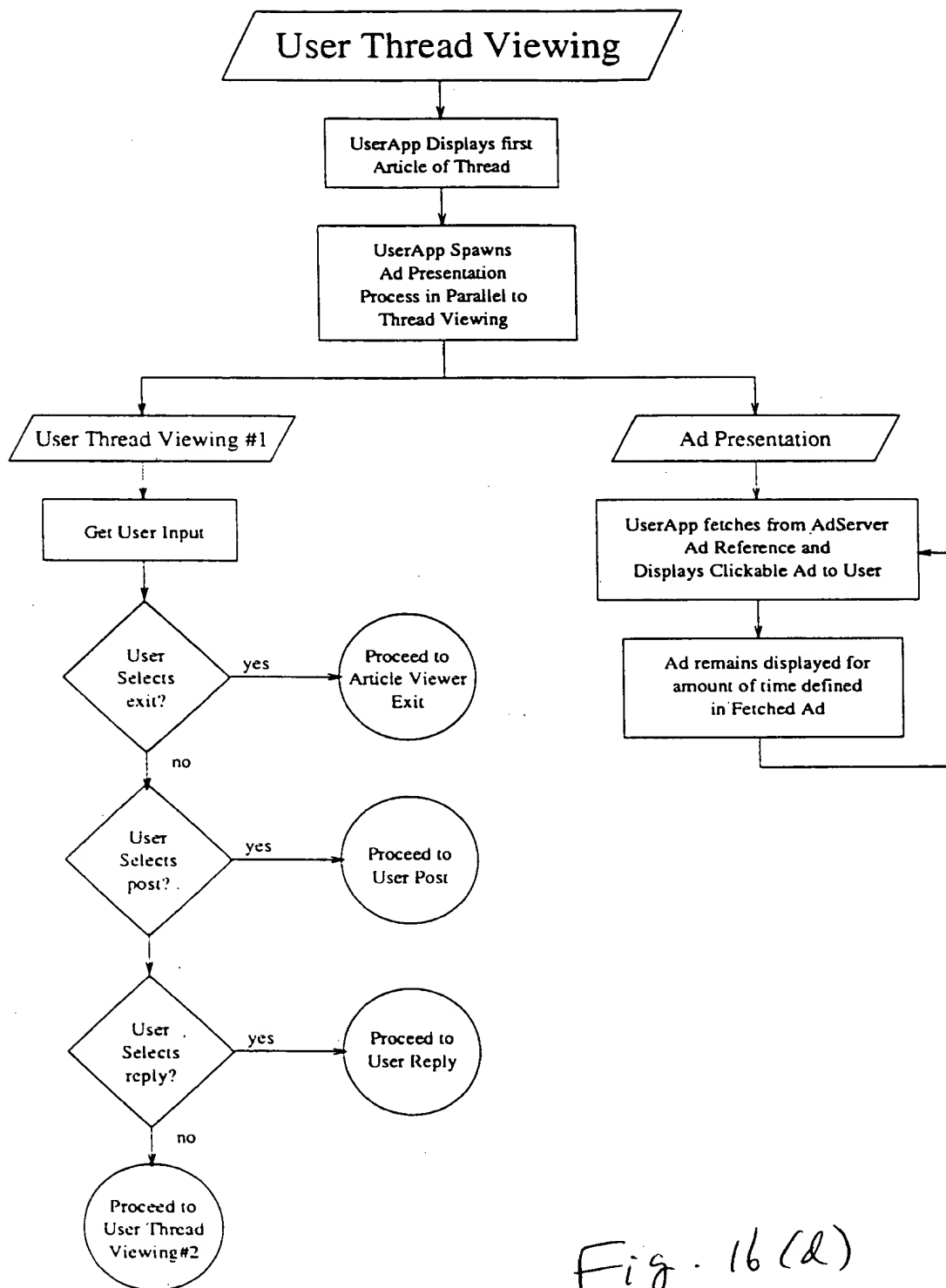


Fig. 16 (d)

User Thread Viewing #2

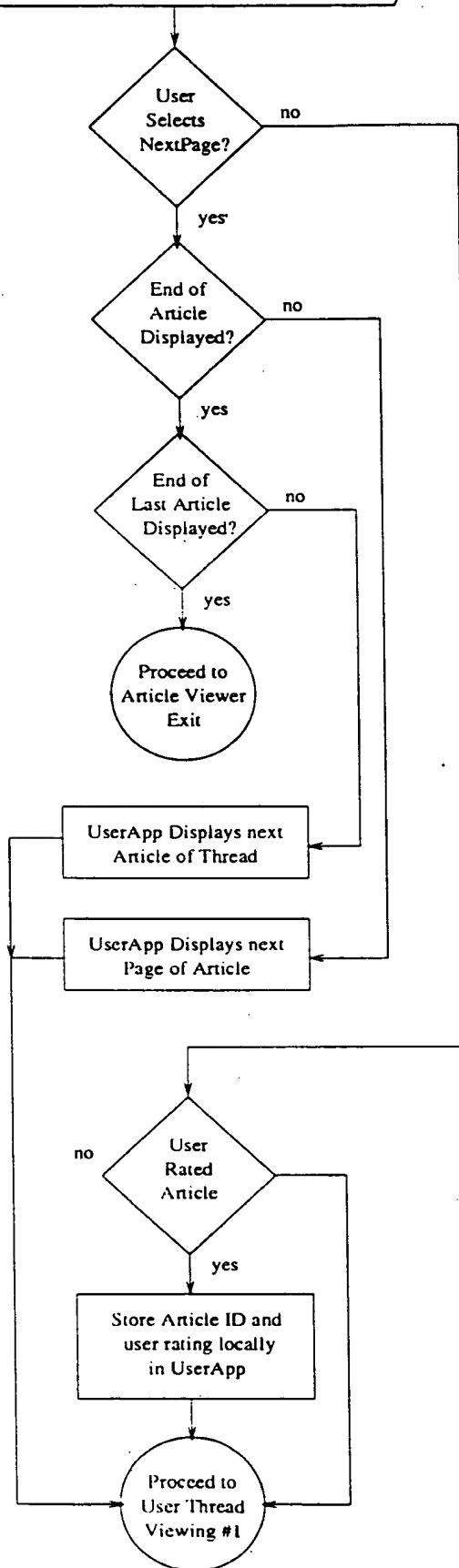


Fig. 16 (e)

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graph TD
    Start([Article Viewer Exit]) --> Decision{User Ratings}
    Decision -- no --> End([Proceed to User Thread Selection])
    Decision -- yes --> Process1[Collected User Ratings of Articles are sent to RatingServer]
    Process1 --> Process2[RatingServer contacts ForumServer and invalidates cache related to current thread]
    Process2 --> Process3[RatingServer contacts WebServer and invalidates cache related to current thread]
    Process3 --> End
  
```

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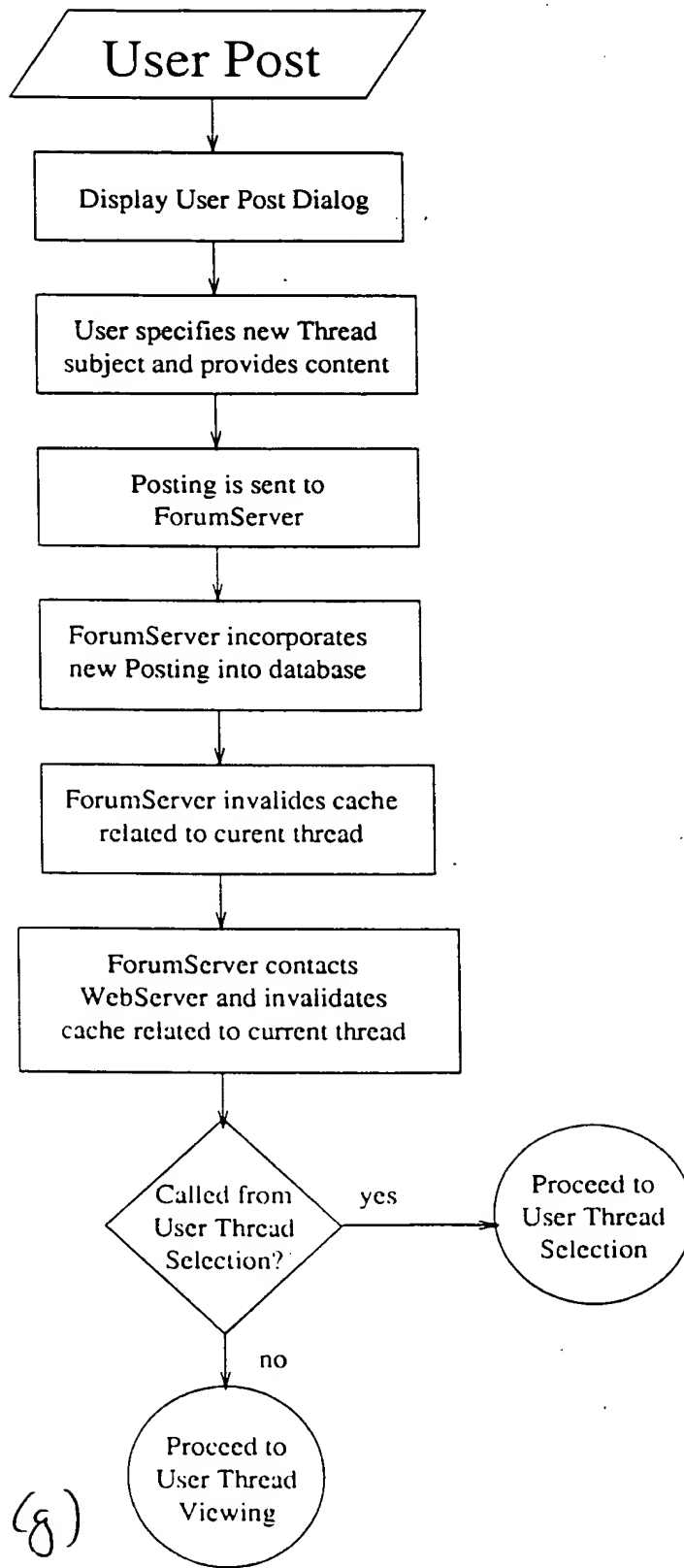


Fig. 16(g)

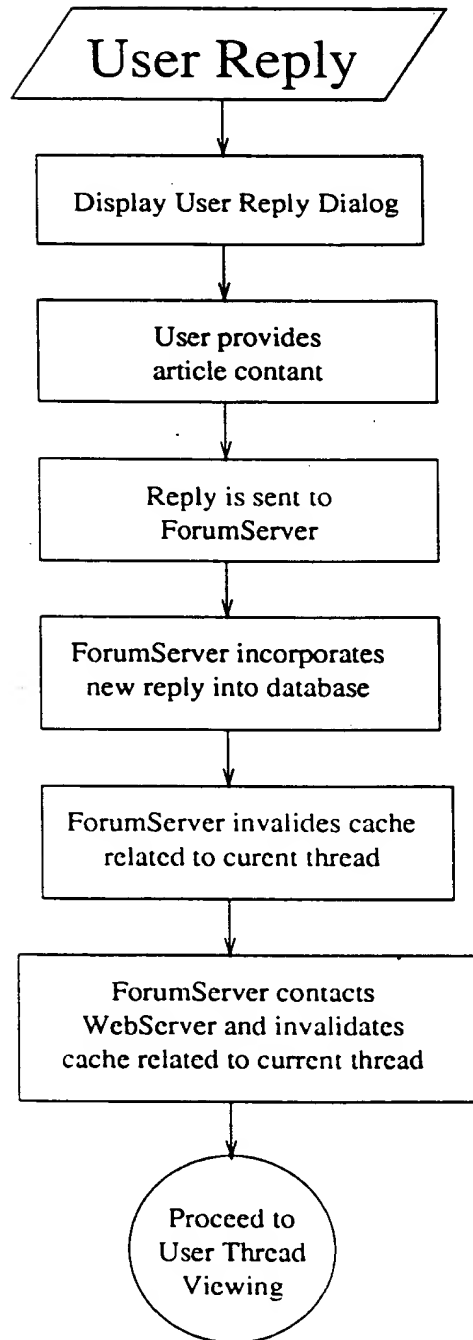
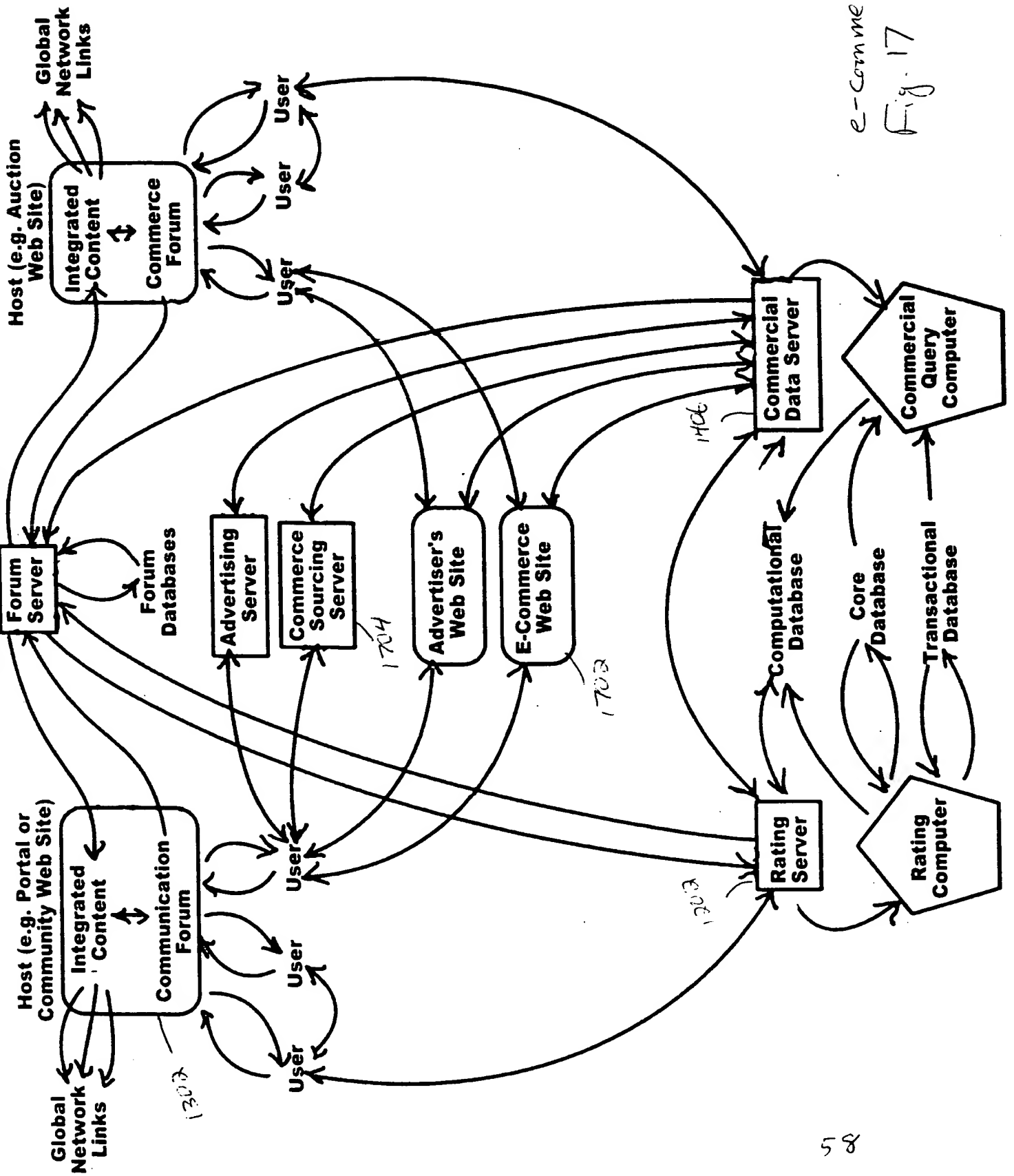


Fig. 16(h)

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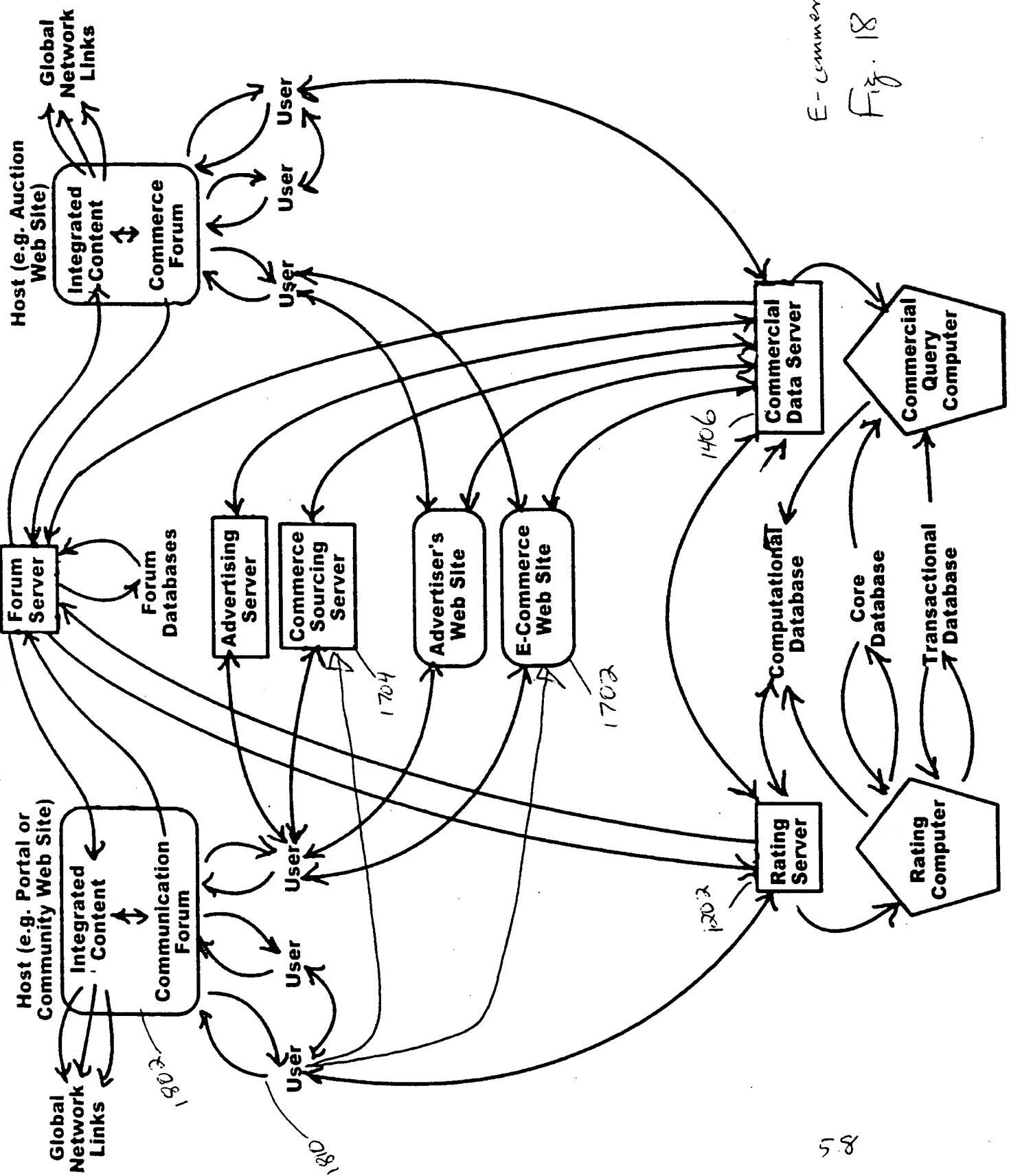
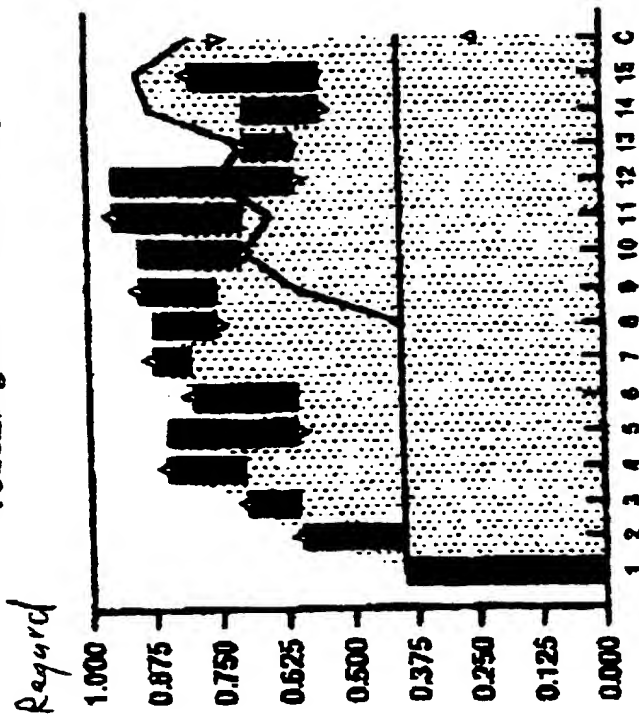




Fig. 19

Vouching and Discrediting



Period	V or D	Adj. Regard	Quality	Max(R,Q)
1	Initial	0.400	Inertia	0.400
2	Vouch	0.600	Inertia	0.600
3	Vouch	0.700	Inertia	0.700
4	Vouch	0.850	Inertia	0.850
5	Discredit	0.600	Inertia	0.600
6	Vouch	0.800	Inertia	0.800
7	Vouch	0.875	Inertia	0.875
8	Discredit	0.750	Inertia	0.750
9	Vouch	0.900	0.600	0.900
10	Discredit	0.700	0.700	0.700
11	Vouch	0.950	0.650	0.950
12	Discredit	0.800	0.750	0.750
13	Vouch	0.700	0.700	0.700
14	Discredit	0.550	0.875	0.875
15	Vouch	0.800	0.900	0.900

Regard of User Considering
 Whether to Vouch or Discredit: 0.250
 Able to Vouch to: 0.250
 Able to Discredit to: 0.750

Fig 20(b)

Fig 20(a)